

Power Made Safer*

Elevate your experience
and performance with the
Coloplast TFL Drive
Thulium Fiber Laser

All-in-one
solution

for lithotripsy, BPH
and soft tissue



* User interface designed with warning limits for safer use

It's time to elevate your experience and your performance with the Coloplast TFL Drive thulium fiber laser. TFL is the latest cutting-edge laser technology.

Enjoy game-changing control with this plug and play system featuring an intuitive touchscreen packed with presets and power options. And, kick it into high gear with an optimized layout built for speed, consistency and safety.

Together, let's advance the standard for endourologic care.



Endourology your way

Every day, we're building on our 125-year legacy of progress – reshaping and redefining endourology care, leveraging new technologies and innovative materials to help increase efficiencies and improve outcomes.

Because at Coloplast, we're here to help you **make life easier** for your patients.

Set for safety

Safety should be simple. That's why we worked with experienced surgeons to build it right in. Coloplast TFL Drive's pre-settings, power limits and intuitive interface were conceived to optimize your experience.

Intuitive interface with Pre-settings

Provide a quick starting point for every case and a flatter learning curve. Adapt energy, frequency and power values to the size of fiber used.

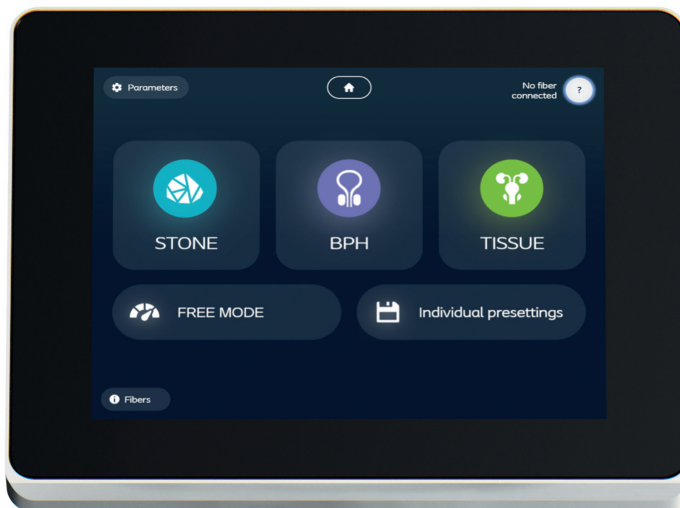
Power limits

Alerts appear when exceeding pre-defined power limits for each anatomical location.

First peer-reviewed settings supported by clinical practice.¹

In **94.1%**

of cases, parameters selected by surgeon remained in Coloplast pre-setting safety range.¹



1. Choose setting



2. Choose treatment area and treatment type



3. Review energy, power and frequency values before starting procedure

Designed for ease

The Coloplast TFL Drive offers powerful, consistent performance at your fingertips. Add in a flexible, maneuverable design that you can use in any OR and you've scored a winning workflow.

Standard plug

Available in any OR suite

Less maintenance

Simple internal architecture

Quiet

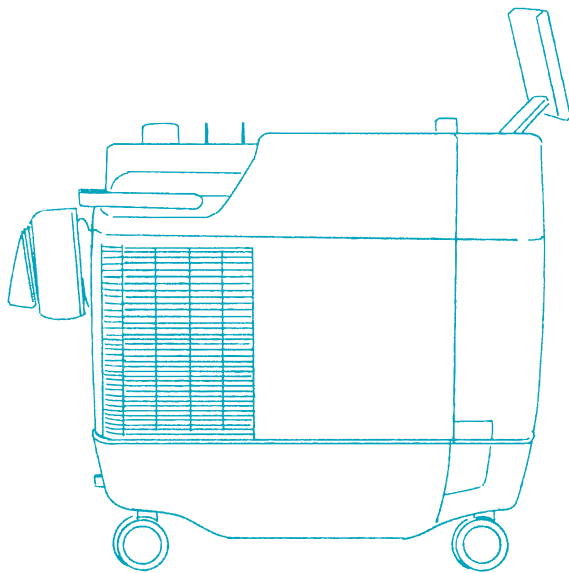
Uses air-cooling technology (<70dBA)

Double footswitch

Surgeon can change modes without nurse assistance

Lightweight, compact design

Tower model is only 220 lbs.
(vs. >500 lbs. for high power holmium)



Ho:YAG*

**Image is not drawn to scale*



Coloplast TFL Drive

High performance² with less energy consumption

TFL technology is the latest cutting-edge laser technology, bringing highly effective intra-operative performance. With the Coloplast TFL Drive, do more in less time, using less energy.

TFL technology uses 25% less procedure time vs. Ho:YAG³⁻⁸



Faster and finer dusting



Less stone retropulsion



High stone ablation speed and efficiency



Reduced energy requirements



Greater variety of laser settings (0.02-6) and up to 2,500 Hz)

Wide offering of laser fibers

The Coloplast TFL Drive operates with a large range of fibers depending on the application, flexibility and settings required.

Available diameters

150, 200, 272, 272 ball tip, 365, 550, 600 (lateral flow), 800 and 1000 µm.

150µm fiber

For greater scope flexibility, irrigation and visibility.

Single use and Reusable fibers

150, 272 ball tip and 600 µm fibers only available in single use.

Laser Specifications	Laser Classification	Class 4	Pulse duration	50µs - CW
	Laser type	TFL (Thulium Fiber Laser)	Aiming Beam	Green 532nm (adjustable) < 5mW, class 3R
	Wavelength	1940 nm ± 20nm	Electrical requirements	100-240 Vac; 50/60 Hz; 1000 VA
	Max pulsed energy	0.02 - 6 J	Dimensions	18.5" (W) x 31.89" (L) x 37" (H) display closed 18.5" (W) x 31.89" (L) x 45.51" (H) Display open
	Repetition rate	1 - 2500 Hz	Weight	220 lbs.
	Max power	60 W (CW and pulsed mode)	Cooling system	Air cooling system
	Operating mode	Pulsed (single or multiple) / CW		

1. Catalina Solano, Luigi Candela, Frederic Panthier, Mariela Corrales and Olivier Traxer World J Urol. 2023 Dec;41(12):3765-3771. 2. As evidenced through in vitro test comparing Coloplast TFL Drive to holmium laser, showing significant increase in ablation volume, finer dust quality and less energy consumption. 3. Martov A., Ergakov D., Guseynov M., Andronov A., Plekhanova O.A. Clinical Comparison of Super Pulse Thulium Fiber Laser and High-Power Holmium Laser for Ureteral Stone Management. J. Endourol. 2020:795-800. 4. Gupta, A., Ganpule, A. P., Puri, A., Singh, A. G., Sabnis, R. B., & Desai, M. R. (2023). Comparative study of thulium fiber laser versus holmium laser for ureteric stone management with semi-rigid ureteroscopy: A prospective, single-center study. Asian Journal of Urology. 5. Chandramohan, Vaddi; Swamy, P M Siddalinga; Ramakrishna, Paidakula; Ganesan, Soundarya; Babu, Manas; Anandan, Hemnath; Panda, Rakesh. Ureteroscopic lithotripsy by thulium fiber laser versus holmium laser: A single-center prospective randomized study. Urology Annals 15(3):p 285-288, Jul-Sep 2023. 6. Para, S. A., Wani, M. S., Hamid, A., Malik, S. A., Khawaja, A. R., & Mehdi, S. (2023). Incidence of Ureteric strictures Following Ureteroscopic Laser Lithotripsy: Holmium: YAG Versus Thulium Fiber Laser. Urology Research & Practice, 49(3). 7. Taratkin, Mark, Camilla Azilgareeva, Vladislav Petov, Andrey Morozov, Stanislav Ali, Diana Babaevskaia, Vincent De Coninck et al. "Thulium fiber laser vs Ho: YAG in RIRS: a prospective randomized clinical trial assessing the efficacy of lasers and different fiber diameters (150 µm and 200 µm)." World Journal of Urology 41, no. 12 (2023): 3705-3711. 8. Pratsinis, Manolis, Ahmet C. Tekin, Valentin Zumstein, Sabine Gusewell, Hans-Peter Schmid, Dominik Abt, Patrick Betschart, and Ahmet Cevdet Tekin. "Urinary Stone Location with Ureteral Stents in Place: Always on the Move, and not Where you Would Expect." Urology Journal 17, no. 6 (2020).

Coloplast TFL Drive Laser Fibers BRIEF STATEMENT

Indications – Single Use Lateral and 150 µm Optical Fibers

Single Use Lateral and 150µm Optical Fibers are intended to be used to deliver the laser radiation to the target tissue when used with any cleared/certified surgical laser with operational wavelengths between 532 nm – 2200 nm equipped with SMA 905 or SMA 906 or compatible connector, as per the indications of the laser device used with.

Indications – Single Use and Reusable Optical Fibers

Single Use and Reusable Optical Fibers are intended to be used in conjunction with any cleared surgical laser distributed by Coloplast equipped with SMA 905 or SMA 906 or compatible connector for use in general surgical applications (incision, excision, vaporization, ablation, hemostasis or coagulation of soft tissue in contact or non-contact mode). Optical Fibers are also indicated for use in open or closed endoscopic applications where incision, excision, tissue dissection, excision of external tumors and lesions, complete or partial resection of internal organs, tumors or lesions, tissue vaporization, hemostasis and or coagulation may be indicated. The Optical Fibers are indicated for use in general surgery, urology, gastroenterology, gynecology, dermatology, vascular surgery, neurosurgery, plastic surgery, ENT/otolaryngology, endovenous occlusion of the greater saphenous vein in the patient with superficial vein reflux and laser assisted lipolysis. Optical Fibers are also intended as an aid for otologic procedures, for use in incision, excision, coagulation and vaporization of soft and fibrous tissue including osseous tissue, and for use in lithotripsy. Optical Fibers are indicated for use with laser devices emitting radiation from 532 nm to 2100 nm, with pulsed and continuous wave (CW) emission mode, and, but not limited, for use with Diode laser, Argon, KTP/532, Ho:YAG, Nd:YAG, Tm:YAG pulsed and continuous wave CW laser devices. Optical Fibers may be used in surgical specialties or procedures for which compatible lasers have received regulatory clearance: for a complete information about applications, contraindications, precautions and warnings when using Optical Fibers it is necessary to refer to the applicable laser device User Manual.

Warnings and Precautions – Single Use, Single Use 150µm and Reusable Optical Fibers

Optical Fibers shall be used by trained and qualified users only. Reuse, reprocessing or resterilization may compromise the structural integrity of the device and/or lead to a device failure which, in turn, may result in patient injury, illness or death (For Single Use Fibers Only). On patients with confirmed or suspected Transmissible spongiform encephalopathies (TSEs), also known as prion disease, use only Single-use Sterile Optical fibers.

Potential Complications – Single Use, Single Use 150µm and Reusable Optical Fibers

Complications that could occur during laser treatments include local and/or systemic infection, thermal changes to the surrounding structures, local hematoma, dissection and perforation, tissue adhesion, distal tip detachment, and discomfort during and/or after (laser) energy application. In the unlikely event of a detached tip, it may be visually located through an appropriate scope and removed using forceps. Irrigate the area thoroughly to remove any traces of the tip. The information provided is not comprehensive with regard to product risks. For a comprehensive listing of indications, contraindications, warnings, precautions, and adverse events refer to the product's Instructions for Use. Alternatively, you may contact a Coloplast representative at 1-800-258-3476 and/or visit the company website at www.coloplast.com.

Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.

Coloplast TFL Drive BRIEF STATEMENT

Indications

The Coloplast TFL Drive laser device and its accessories are intended for incision, excision, resection, ablation, coagulation, hemostasis, and vaporization of soft tissue with or without an endoscope, in the following indications: Urology, Lithotripsy, Gastroenterological Surgery and Gynecological Surgery.

Contraindications

The use of the laser is contraindicated:

- In patients whose general medical condition contraindicates surgical intervention.
- When appropriate anaesthesia is contraindicated by patient history or inability to receive anesthesia.
- Where tissue (especially tumors) is calcified.
- For hemostasis of vessels with diameters over approximately two millimeters.
- Where laser therapy is not considered the treatment of choice.
- In patients who have recently undergone radiotherapy.
Such patients may be at greater risk of tissue perforation or erosion.
- In patients unable to receive endoscopic treatment.

- In patient suffering from bleeding disorders and coagulopathy.
- Diagnosed with acute or chronic prostatitis, prostate cancer, or severe urethral stricture.
- Diagnosed at the time of treatment with acute or chronic urinary tract infection.

Other considerations requiring Physician's clinical judgement:

- Patients with compromised renal function or upper urinary tract obstructive diseases.
- Patients who still wish to have children.
- Patients with an ASA classification of physical status 5.
- Patients with a prostate gland > 120g.

Warnings and Precautions

Clinical studies have shown that patients who have undergone radiation therapy present a greater risk of perforation or tissue erosion. The Coloplast Drive Laser System is a surgical device that should be used only by physicians or surgeons who have been thoroughly trained in laser surgery. Surgeons using Coloplast TFL Drive Laser System must understand the laser's unique properties prior to using the device. As with conventional endoscopic surgery, the possibility of complications and adverse events (such as chills, fever, edema, hemorrhage, inflammation, tissue necrosis or infection) may occur following treatment. In extreme cases, death may occur due to procedural complications or concurrent illness. The laser may not be effective for coagulation in massive haemorrhage situations. The surgeon must be prepared to control haemorrhages with alternative non-laser techniques, such as ligation or cautery. The risk of infection and scarring associated with any surgical procedure has to be taken into account. Tissue perforation may result if excessive laser energy is applied. This could occur through the use of excessive laser power or the application of a correct power for excessive periods, particularly in diseased tissue. The use of mechanical pressure on the Single-Use and Reusable Optical Fiber devices does not increase its cutting or vaporization effects but may induce bleeding, thermal damage and fiber destruction. The manufacturer has no clinical information or experience concerning the use of the Laser System on pregnant women or nursing mothers. There is no guarantee that treatment with the Laser System will entirely eliminate the disease. Repeated treatment or alternative therapies may subsequently be required.

Potential Complications

Complications and risks are the same of the conventional laser surgery. Acute pain may occur immediately following laser therapy and may persist for as long as 48 hours. Immediately following laser therapy, the patient may experience fever and leucocytosis, which are commonly associated with tissue destruction. These generally resolve without treatment. Laser ablated tissue may become necrotic or infected after treatment. In case of concerns about any possible infection, appropriate treatment should be carried out. Acute complications and non-thermal risks include induced hemorrhage, ulceration, perforation, edema, pain, fever, leucocytosis, and chills. Critical complications and thermal risks include healing delay, perforation, stenosis, delayed hemorrhage, sepsis, and embolism. The following complications could be serious and could result in death:

- Patients may experience bleeding at the site of laser therapy. Haematocrit analysis after treatment is recommended to identify this potential complication.
- Sepsis can result from performing any surgical procedure. In case of concerns about any possible sepsis, appropriate evaluations should be made.
- Perforation may occur as a result of laser treatment. In order to diagnose perforations, patients must be carefully followed post-operatively with appropriate tests. The information provided is not comprehensive with regard to product risks. For a comprehensive listing of indications, contraindications, warnings, precautions, and adverse events refer to the product's Instructions for Use. Alternatively, you may contact a Coloplast representative at 1-800-258-3476 and/or visit the company website at www.coloplast.com.

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